

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P522813

Luminaire Tested: **GALN-SA6C-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37995 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

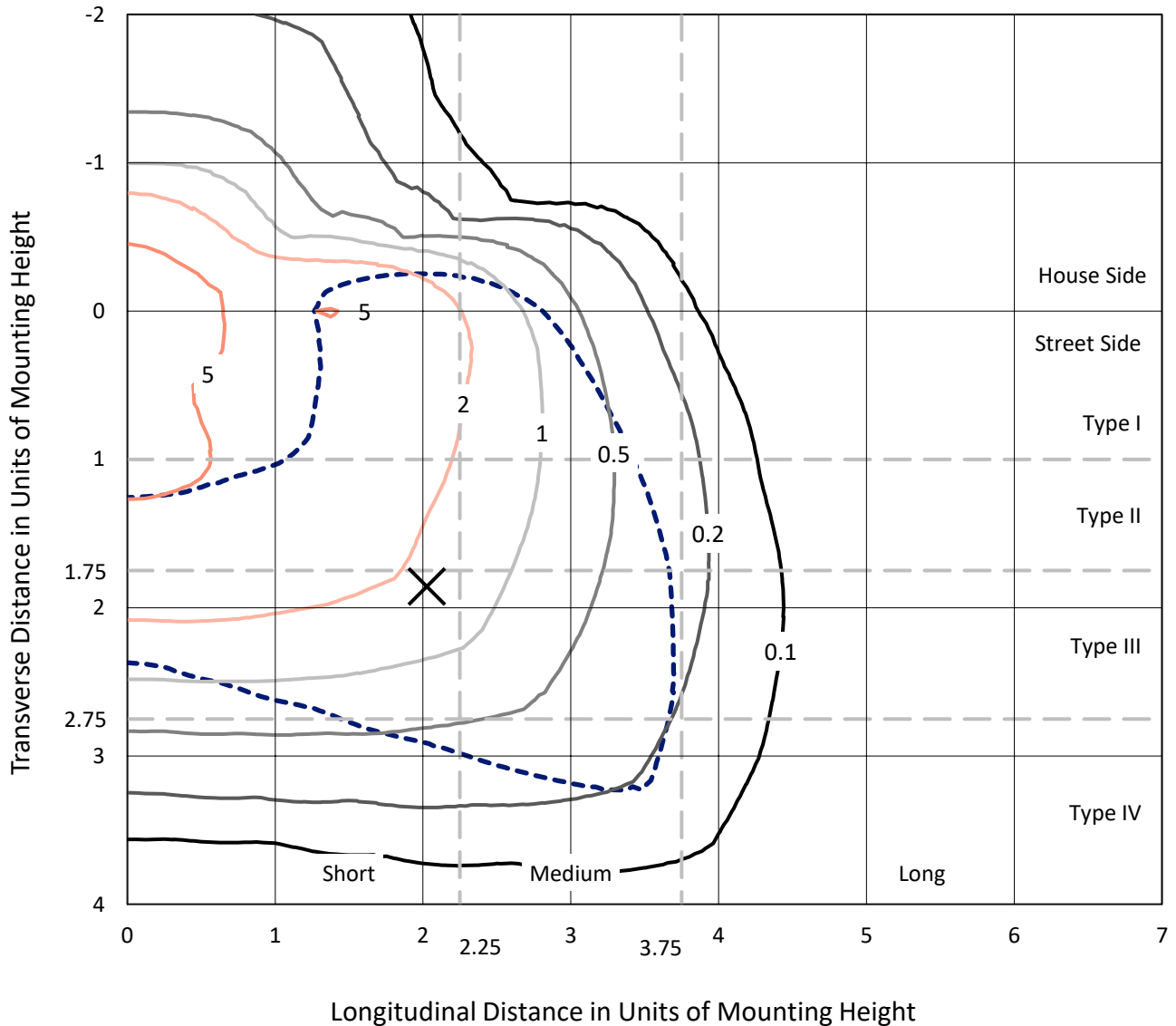
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P522813  
 CATALOG NUMBER: GALN-SA6C-730-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

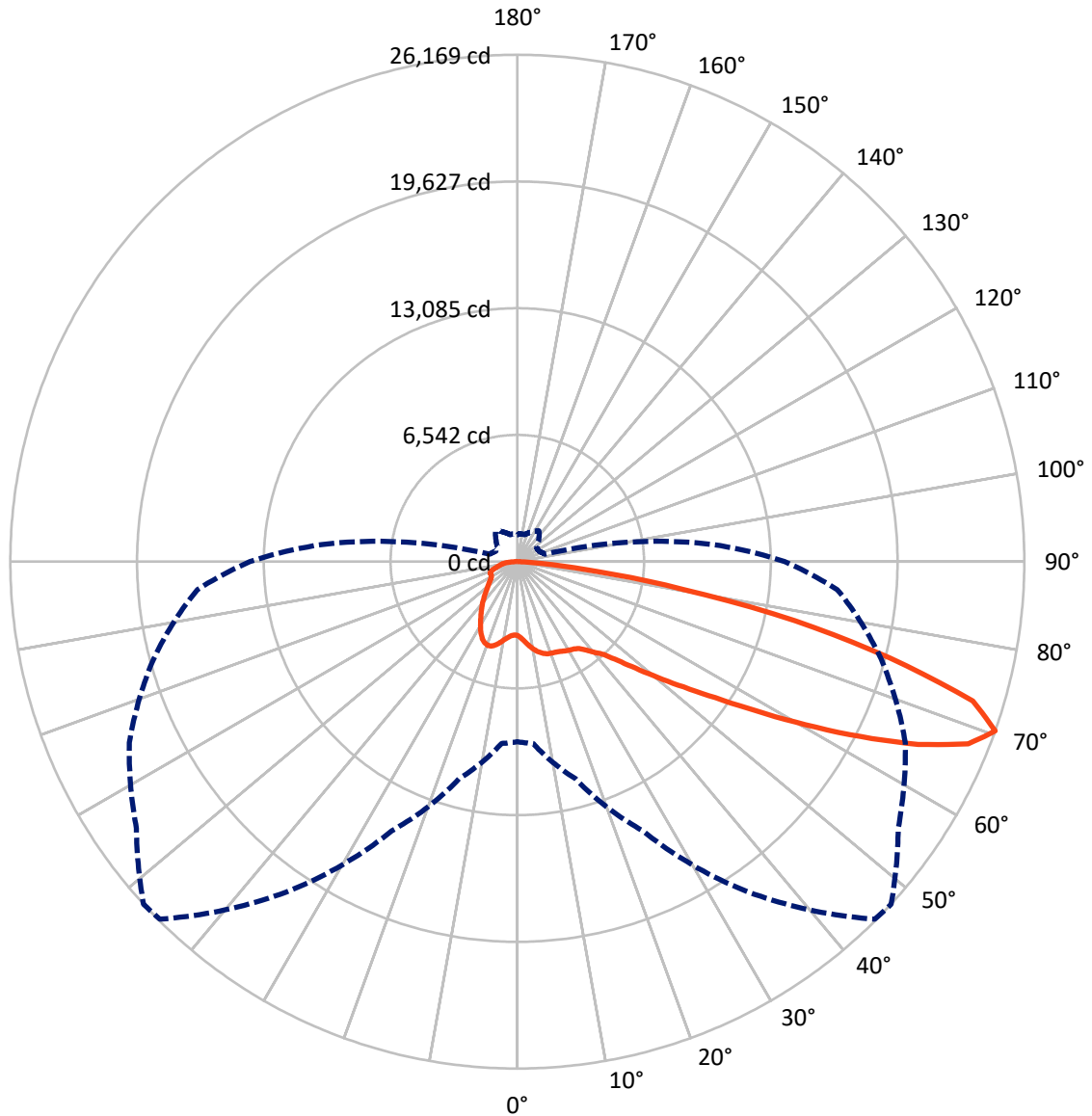
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P522813  
CATALOG NUMBER: GALN-SA6C-730-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522813

CATALOG NUMBER: GALN-SA6C-730-U-T4W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8602.8	0.0	8602.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	29392.2	0.0	29392.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	37995.0	0.0	37995.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.2	1.0
10°-20°	1314.4	3.5
20°-30°	2185.8	5.8
30°-40°	3098.1	8.2
40°-50°	4573.4	12.0
50°-60°	7921.4	20.8
60°-70°	11189.2	29.4
70°-80°	6432.1	16.9
80°-90°	887.5	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	37995.0	100.0
0°-180°	37995.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P522813

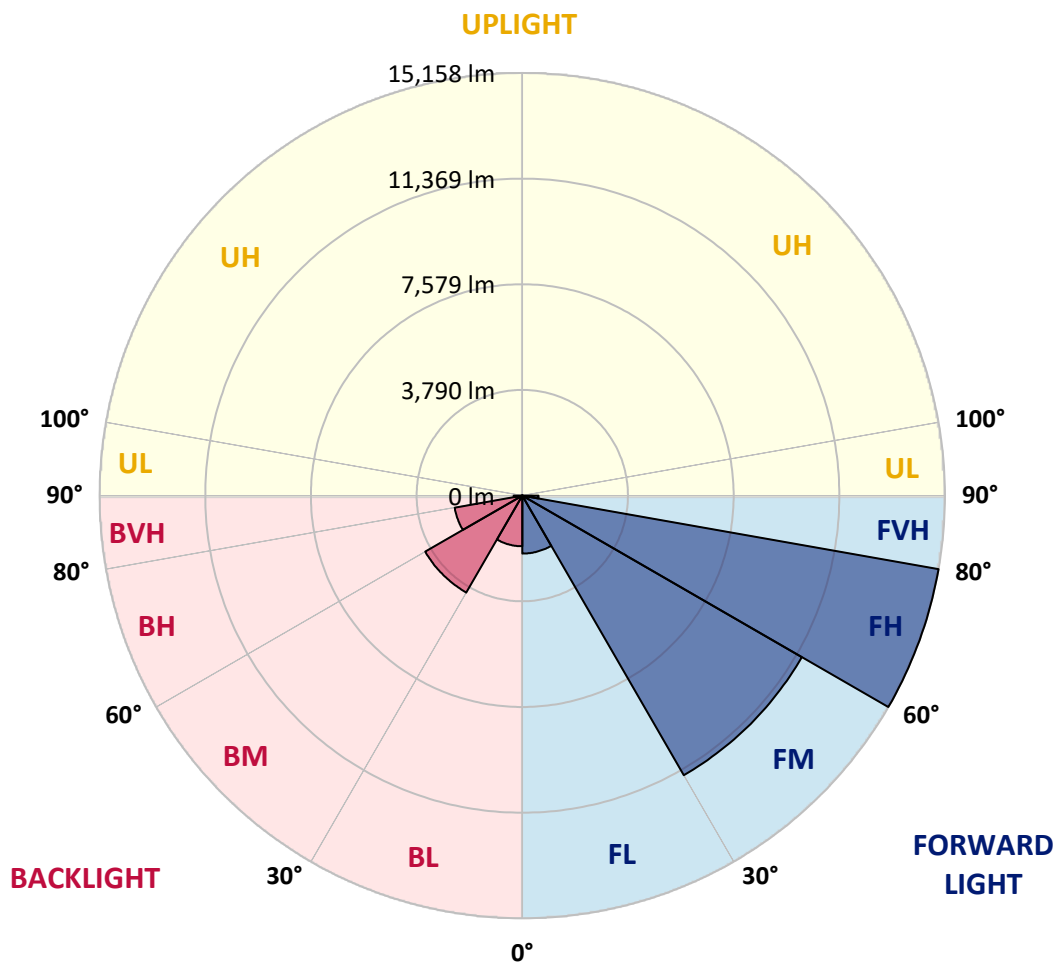
CATALOG NUMBER: GALN-SA6C-730-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2077.7	5.5			
FM	(30°-60°)	11576.3	30.5			
FH	(60°-80°)	15158.4	39.9			G5
FVH	(80°-90°)	579.7	1.5			G4/750
BL	(0°-30°)	1815.7	4.8	B3/2500		
BM	(30°-60°)	4016.5	10.6	B3/5000		
BH	(60°-80°)	2462.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	307.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P522813

CATALOG NUMBER: GALN-SA6C-730-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2
2.5°	4060.3	4046.0	4044.0	4013.5	3997.2	3966.7	3954.5	3926.1	3891.5	3856.9	3824.4
5°	4379.5	4379.5	4365.2	4322.5	4255.4	4186.3	4155.8	4100.9	4003.3	3924.0	3856.9
7.5°	4706.8	4710.9	4682.4	4619.4	4523.8	4412.0	4383.5	4302.2	4163.9	4048.1	3948.4
10°	4989.4	4989.4	4950.8	4865.4	4745.4	4623.4	4595.0	4503.5	4349.0	4204.6	4074.5
12.5°	5204.9	5204.9	5154.1	5042.3	4912.2	4802.4	4769.8	4682.4	4538.1	4377.4	4212.7
15°	5345.2	5335.1	5278.1	5152.1	5026.0	4930.5	4908.1	4834.9	4702.7	4540.1	4355.1
17.5°	5351.3	5347.3	5292.4	5186.6	5076.8	5011.8	4997.6	4948.8	4845.1	4690.5	4495.4
20°	5233.4	5241.5	5204.9	5129.7	5076.8	5048.4	5042.3	5026.0	4952.8	4808.5	4613.3
22.5°	5107.3	5121.6	5087.0	5046.3	5042.3	5070.7	5074.8	5078.9	5032.1	4891.8	4712.9
25°	5076.8	5087.0	5052.4	5015.8	5038.2	5113.4	5129.7	5146.0	5109.4	4991.5	4830.8
27.5°	5231.4	5223.2	5156.1	5076.8	5091.1	5192.7	5215.1	5233.4	5215.1	5113.4	4977.2
30°	5668.5	5642.1	5507.9	5276.1	5202.9	5274.1	5296.4	5347.3	5347.3	5272.0	5135.8
32.5°	6400.4	6349.6	6103.6	5648.2	5394.0	5351.3	5373.7	5457.0	5499.7	5440.8	5292.4
35°	7288.9	7236.1	6884.3	6272.4	5743.7	5505.8	5499.7	5593.3	5707.1	5575.0	5381.8
37.5°	8181.5	8126.6	7703.7	7016.5	6254.1	5831.2	5794.6	5827.1	5875.9	5633.9	5505.8
40°	9074.1	9009.0	8639.0	7848.1	6878.2	6262.2	6166.6	6020.2	5999.9	5827.1	5745.8
42.5°	9958.5	9899.5	9712.5	8781.3	7626.4	6683.1	6536.7	6284.6	6361.8	6258.1	6187.0
45°	10851.1	10855.1	10655.9	9828.4	8529.2	7459.7	7262.5	6868.1	7051.1	7012.4	7053.1
47.5°	11642.0	11631.8	11560.6	10845.0	9649.5	8460.1	8205.9	7748.4	8061.5	8203.9	8514.9
50°	12408.5	12402.4	12406.4	11997.8	10950.7	9649.5	9368.9	8889.1	9594.6	10088.6	10645.7
52.5°	13506.4	13541.0	13294.9	13187.2	12532.5	11054.4	10745.3	10249.2	11406.1	12184.8	13272.6
55°	14608.4	14579.9	14386.8	14498.6	14187.5	12717.5	12394.2	11999.8	13423.0	14274.9	15909.6
57.5°	15257.0	15267.1	15464.3	16011.3	16230.9	14791.4	14498.6	14193.6	15690.0	16293.9	18255.9
60°	15840.5	15887.2	16454.5	17487.4	18083.1	17338.9	17078.7	16781.8	17770.0	18009.9	20293.1
62.5°	16023.5	16167.8	17158.0	18703.2	19888.5	20213.8	19890.6	19235.9	19750.3	19656.8	21673.7
65°	15110.6	15307.8	17082.8	19158.6	21500.9	22942.4	22737.0	21521.2	21437.8	20874.6	21899.4
67.5°	12707.4	12904.6	15183.8	18203.0	22167.7	25304.9	25099.6	23188.4	22462.5	20988.5	20191.5
70°	9297.7	9421.7	11601.3	15326.1	20827.9	26097.9	26169.0	24001.7	22096.6	19441.2	16578.5
72.5°	5357.4	5631.9	7158.8	10781.9	17015.7	24093.2	24587.2	22310.1	19782.8	16218.7	11591.1
75°	2303.6	2309.7	3310.0	5947.0	11524.0	19366.0	19843.8	18493.8	15535.5	11215.0	6189.0
77.5°	1095.9	1116.2	1455.8	2655.3	6343.5	13380.3	14669.4	13065.2	9936.1	5387.9	2338.2
80°	711.6	725.8	890.5	1317.5	3110.8	7758.6	8657.3	7537.0	4383.5	1925.4	1008.5
82.5°	431.0	435.1	595.7	805.1	1711.9	3513.3	4141.6	3271.4	1870.5	1152.8	593.7
85°	262.3	264.3	361.9	498.1	1039.0	1213.8	1246.3	1236.2	1097.9	754.3	317.2
87.5°	126.1	130.1	187.1	235.8	408.7	376.1	355.8	412.7	518.5	406.6	136.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522813  
 CATALOG NUMBER: GALN-SA6C-730-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2
2.5°	3810.2	3804.1	3789.8	3783.7	3779.7	3781.7	3779.7	3779.7	3781.7	3781.7	3781.7
5°	3828.5	3818.3	3795.9	3795.9	3808.1	3836.6	3863.0	3883.4	3905.7	3903.7	3903.7
7.5°	3907.8	3889.5	3863.0	3871.2	3901.7	3946.4	3993.2	4037.9	4082.6	4086.7	4084.7
10°	4023.7	4005.4	3976.9	3987.1	4035.9	4103.0	4161.9	4227.0	4275.8	4290.0	4285.9
12.5°	4155.8	4119.2	4094.8	4123.3	4200.5	4290.0	4346.9	4395.7	4430.3	4450.6	4442.5
15°	4290.0	4255.4	4227.0	4285.9	4379.5	4462.8	4491.3	4499.4	4505.5	4525.9	4521.8
17.5°	4420.1	4373.4	4363.2	4440.5	4529.9	4566.5	4550.3	4515.7	4489.3	4505.5	4503.5
20°	4536.0	4499.4	4495.4	4572.6	4607.2	4572.6	4503.5	4442.5	4395.7	4399.8	4397.8
22.5°	4645.8	4617.3	4621.4	4653.9	4599.0	4481.1	4367.3	4283.9	4233.1	4243.2	4249.3
25°	4767.8	4739.3	4749.5	4696.6	4515.7	4310.3	4145.6	4074.5	4054.2	4074.5	4088.7
27.5°	4926.4	4908.1	4902.0	4698.7	4367.3	4058.2	3871.2	3844.7	3863.0	3907.8	3930.1
30°	5097.2	5097.2	5064.6	4664.1	4163.9	3755.3	3592.6	3596.7	3659.7	3722.7	3745.1
32.5°	5261.9	5296.4	5194.8	4570.6	3901.7	3460.5	3336.4	3340.5	3395.4	3472.7	3493.0
35°	5398.1	5497.7	5306.6	4399.8	3592.6	3212.4	3118.9	3064.0	3066.0	3125.0	3141.3
37.5°	5585.1	5770.2	5371.7	4145.6	3263.2	3001.0	2895.2	2799.7	2736.7	2712.3	2712.3
40°	5910.4	6182.9	5387.9	3769.5	2952.2	2799.7	2649.2	2535.4	2413.4	2303.6	2283.3
42.5°	6461.4	6805.0	5355.4	3336.4	2671.6	2578.1	2431.7	2291.4	2122.6	1968.1	1955.9
45°	7437.4	7614.2	5268.0	2887.1	2421.5	2364.6	2222.3	2069.8	1890.9	1752.6	1742.4
47.5°	9000.9	8750.8	5152.1	2488.6	2193.8	2177.5	2067.7	1890.9	1711.9	1616.4	1606.2
50°	11284.1	10540.0	5135.8	2199.9	2010.8	2018.9	1929.5	1766.8	1610.3	1531.0	1518.8
52.5°	14033.0	12701.3	5243.6	1996.6	1850.2	1880.7	1836.0	1685.5	1547.2	1480.2	1468.0
55°	16700.5	14645.0	5308.6	1838.0	1699.7	1756.7	1762.8	1636.7	1510.7	1443.6	1435.4
57.5°	18865.9	16108.9	5019.9	1693.6	1569.6	1657.0	1701.8	1608.2	1492.4	1441.5	1433.4
60°	20372.4	16800.1	4198.5	1565.5	1474.1	1577.7	1679.4	1610.3	1537.1	1543.2	1547.2
62.5°	20852.3	16493.1	3149.4	1470.0	1409.0	1551.3	1716.0	1693.6	1618.4	1665.2	1673.3
65°	20057.3	15224.4	2283.3	1394.8	1352.1	1569.6	1825.8	1754.6	1589.9	1624.5	1624.5
67.5°	17395.9	13116.0	1777.0	1325.6	1287.0	1604.2	1935.6	1748.5	1522.8	1563.5	1526.9
70°	13799.2	10145.6	1480.2	1248.4	1217.9	1553.3	1945.8	1685.5	1443.6	1451.7	1382.6
72.5°	9157.4	6670.9	1272.8	1175.2	1112.1	1396.8	1862.4	1604.2	1366.3	1319.5	1250.4
75°	4487.2	3326.3	1110.1	1083.7	973.9	1215.8	1748.5	1526.9	1282.9	1209.7	1171.1
77.5°	1738.4	1415.1	947.5	967.8	847.8	1071.5	1598.1	1417.1	1173.1	1073.5	1043.0
80°	843.8	803.1	776.7	807.2	697.4	912.9	1459.8	1321.6	1071.5	961.7	917.0
82.5°	524.6	496.1	595.7	628.3	536.8	833.6	1384.6	1240.2	943.4	797.0	760.4
85°	266.3	284.6	398.5	429.0	384.3	662.8	1140.6	931.2	681.1	565.2	569.3
87.5°	101.7	136.2	209.4	225.7	205.4	349.7	628.3	542.9	437.1	296.8	274.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)